Work Orde December-05-13				*10	9907*				.,		Page 1
Revision ID:	D3417-5 Washer			Accept	*N900	<b>040</b>	100	)* s	etup Start Stop	I VI -	S1* S2*
Start Date: Required Date: Reference:	12/05/13 12/19/13	<b>Start Qty:</b> 100.00 <b>Req'd Qty:</b> 100.00			Cust Item II Customer:	D:					
Approvals:		n: MCJ	Date: <u>13-12-05</u>			te:		R	tun Star Stop		R1* R2*
Sequence ID/ Work Center II	)	Operation Description		Set Up/ Run Hours	Tool ID	Tooi #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revi	sion Nbr						-			
D3417	Rev	F									
*100 *100* Doosan Doosan Lathe		Hardinge CNC LATHE  Memo  1-Turn as po  Rev:  A  Dwg D3417  2-Deburr	er Folio FA761 &	0.00	13-12-2	l		100	Þ		0AS- 40 13/12/20
110 *110* QC Quality Control		QC2- Inspect parts off m	achine FAI/FAIB	0.00	13-12-21			100-	J.		1945) 40 1412/20
*120 *170* QC Quality Control		QC8- Inspect parts - seco	ond check	0.00	K 13/12/22			100	_Ø_		

DQA:			Date: _						_				AA PT			
QA Closed:			Date:			WORK ORDER NON	-C(	ONFO	RMANCE / U		ork Order up	ndate only	AEROSPACE			
						DISPOSITION		AGAINST DEPARTMENT/PROCESS								
Work Orde	er: _	:					,			/ PROCESS						
						Rework			Skid-tube	Crosstube		Water Jet	Engineering			
Part N	۱o					Scrap			Machining	Small Fab	Pro	d. Eng. Coor.	Quality			
						Use-as-is		Therr	noforming	Finishing	Rec/Sto	re/Packaging	Other			
NCR N	No				_	Suspected Unapproved			Large Fab	Composite	_	Supplier				
Root	T				Desc	ription of work order update		Initial	Act	tion	Sign &					
Cause		Date	Step	Qty		or non-conformance	Ch	nief Eng	Desc	ription	Date	Verification	QC Inspector			
Design																
Doc/Data																
Equip/Tooling																
Handling/Pre							į									
Material												; (				
Operator																
Offset/Setup																
Process				ł					. ,							
Supplier																
Training				-												
Transport																
Unapproved																
							FA	ULT CA	regory							
Landi	ng Ge	ear				General		_								
	∐E	Bending			L	Bend		Folio/F	rogram		Outside Dim	ensions	Pressure/Forced			
	Щ	Centre No	t Concen	itric		BOM/Route		Grain			Over/Under	tolerance	Set-up			
	$\Box$	Cracks				Broken/Damage/Defect		Hardwa	ire		Part Incorred	ct	Temperature/Cure			
	$\square$	Crimp/Kin	ık/Ripple/	/Wave		Burrs		Inspect	ion Incomplete/Ui	nqualified	Part Lost/Mi	ssing	Weld			
	Ц	Cuffs				Contamination	L	Instruct	ions Incomplete/	Unclear	Part Moved		Wrong Stock Pulled			
ļ	_	Crushing				Countersink		Misalig	ned/off center		Positioned V	Vrong	<del></del>			
	Ш۲	Heat Trea	t			Cut Too Short		Mislabe	eled		Power Loss/	Surge	Other			
	Ц'	nspection	Strip in	Tube		Drawing		Misread	t	_						
	$\vdash$	Marks/Ch				Drill Holes		Off-set								
:	_	Turning So	•			Finish		Out of (	Calibration							
	LΛ	Nave/Tw	ist in Tub	e		Fit/Function	1	Out of	Sanuanca							

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\*109907\*

Page 2

QC

\*140\*

Quality Control

December-03-13	5 2:33:31 PI	'VI	***									
Item ID: Revision ID:	D3417-5			Accept	*N900	040	100	)* s	Setup	Start	*N	S1*
Item Name:	Washer									Stop	*N.	S2*
Start Date:	12/05/13	<b>Start Qty:</b> 100.00	*100*	<b>k</b>	Cust Item I	D:						
Required Date:	12/19/13	Req'd Qty: 100.00	*100*	<b>k</b>	<b>Customer:</b>							
Reference:												
Approvals:	Process Pl	an:	Date:	Tooling:	D:	ate:		F	Run	Start	*N	R1*
	QC:		Date:	SPC (Y/N):	Date:					Stop	*N	R2*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp
130		Identify as per dwg & Stoo	ck Location: <u>570</u> 42	0.00					1	DAS		
*130* Packaging		Memo		0.00				_100	Xg	DAS 28 -89	13-1	2-27
Packaging												
140		OC21 First Insuranting 1	Wede Order Delegee	0.00								
140		QC21- Final Inspection - \	work Order Kelease	0.00							1	

0.00

Memo

M14-01-7

DQA:			Date:											•	TOAR
		_				<b>WORK ORDER NON</b>	I-C	ONFO	RMANCE / L	JPDATE					
QA Closed:			Date:						•		W	ork Order up	date only		AEROSPACE
						DISPOSITION				AGAINST	DE	PARTMENT	/PROCESS		·
Work Orde	r: _						٦					1		,	
2						Rework	4		Skid-tube	Crosstube	_	_	Water Jet		Engineering
Part N	o. <b>–</b>				·	Scrap	-		Machining	Small Fab	-		d. Eng. Coor.	$\Box$	Quality
NCR N	ام					Use-as-is	4	Therr	noforming	Finishing	_	Rec/Stor	re/Packaging		Other
INCK IN	··· –					Suspected Unapproved	لـ		Large Fab	Composite	L		Supplier		
Root		·····			Desc	ription of work order update	T "	Initial	Ac	ction		Sign &			
Cause		Date	Step	Qty		or non-conformance	Ct	nief Eng	Desc	cription		Date	Verification	n	QC Inspector
Design															
Doc/Data															
Equip/Tooling	$\Box$														
Handling/Pre						•									
Material															
Operator															•
Offset/Setup							1								
Process	_														
Supplier	_														•
Training	_														
Transport	_														
Unapproved															
							FA	ULT CAT	TEGORY						
Landin					_	General	_	-				•			
		Bending			L	Bend		Folio/F	Program			Outside Dim	ensions		Pressure/Forced
		entre No	ot Concer	ntric		BOM/Route		Grain				Over/Under	tolerance		Set-up
		Cracks			<u> </u>	Broken/Damage/Defect		Hardwa	ire .			Part Incorred	rt e		Temperature/Cure
			nk/Ripple	/Wave	<u> </u>	Burrs		Inspect	ion Incomplete/U	Inqualified		Part Lost/Mi	ssing		Weld
		Cuffs			<u> </u>	Contamination		Instruct	tions Incomplete	/Unclear		Part Moved			Wrong Stock Pulled
	_	rushing				Countersink		Misalig	ned/off center			Positioned V	/rong		
		leat Trea			<u> </u>	Cut Too Short	<u> </u>	Mislabe	eled			Power Loss/:	Surge		Other
	_		n Strip in	Tube	<u> </u>	Drawing		Misread	t						
		Marks/Ch			<u> </u>	Drill Holes		Off-set							
		_	equence			Finish		Out of 0	Calibration						
1 1	١V	Vave/Tw	ist in Tub	e		Fit/Function		Out of	Sequence						

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December-05-13 2:33:55 PM

Work Order ID: 109907

\*109907\*

Parent Item:

D3417-5

\*D3417-5\*

Parent Item Name: Washer

**Start Date:** 12/05/13

Required Date: 12/19/13

**Start Qty: 100.00** 

Required Qty: 100.00

**Comments:** 

IPP Rev:ANew issue08-07-09 JLM Verified By:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
MDELRINR1.2500		Purchased	No			110	$f_{O_{i}}$	3.8000	0.0296	4)			
*MDFLRIN	NR1 250	<b>)</b> 0*							** -	L	17-12	-21	

**DELRIN ROUND BAR 1.25"** 

<b>Location</b>	Loc Qty	Loc Code	
MAT039	3.8		
→ m126596	3.8		5.8 Pf

122042

DQA:			Date:			WORK ORDER NON	c	) NIEOI	DNANICE / II	DDATE				13	
QA Closed:			Date:			WORK ORDER WORK			NVIANCE / O		Wo	rk Order up	date only	7	AEROSPACE
Work Orde	∍r·		•			DISPOSITION			<u> </u>	AGAINST	DEF	PARTMENT	/PROCESS		
Part N	- No					Rework Scrap Use-as-is Suspected Unapproved			Skid-tube  Machining  noforming  Large Fab	Crosstube Small Fab Finishing Composite	_		Water Jet d. Eng. Coor. re/Packaging Supplier		Engineering Quality Other
Root					Desci	ription of work order update		Initial	Act	tion	Т	Sign &		$\top$	
Cause		Date	Step	Qty		or non-conformance	l	nief Eng		ription		Date	Verification		QC Inspector
Design Doc/Data Equip/Tooling Handling/Pre Material Operator Offset/Setup Process Supplier Training Transport Unapproved						·						ř			
Landi							FAI	ULT CAT	EGORY						
Landi		ear  Bending  Centre No  Cracks  Crimp/Kin  Cuffs  Crushing  Heat Trea  nspection  Marks/Ch  Furning So	t Strip in atter	/Wave		General Bend BOM/Route Broken/Damage/Defect Burrs Contamination Countersink Cut Too Short Drawing Drill Holes Finish		Grain Hardwa Inspecti Instruct Misalig Mislabe Misread Off-set	on Incomplete/Ui ions Incomplete/U ned/off center led			Outside Dim Over/Under Part Incorred Part Lost/Mi Part Moved Positioned W Power Loss/S	tolerance ct ssing Vrong	Solve	ressure/Forced et-up emperature/Cure Veld Vrong Stock Pulled
	$\boldsymbol{\vdash}$	Wave/Tw		e		Fit/Function		1	Sequence		-				

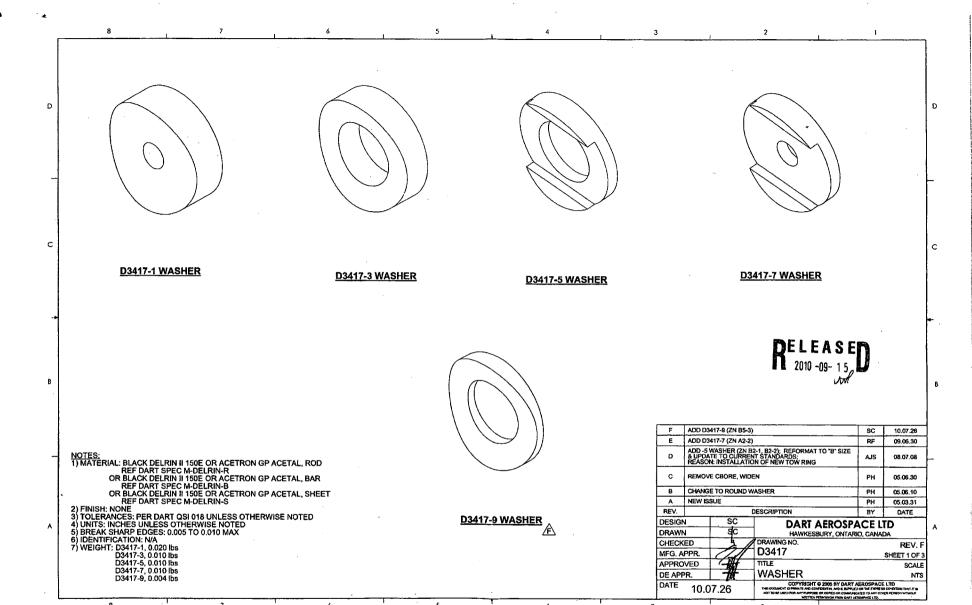
DART AEROSPACE LTD	Work Order:	109907
Description: Washer	Part Number:	D3417-5
Inspection Dwg: D3417 Rev: F		Page 1 of 1

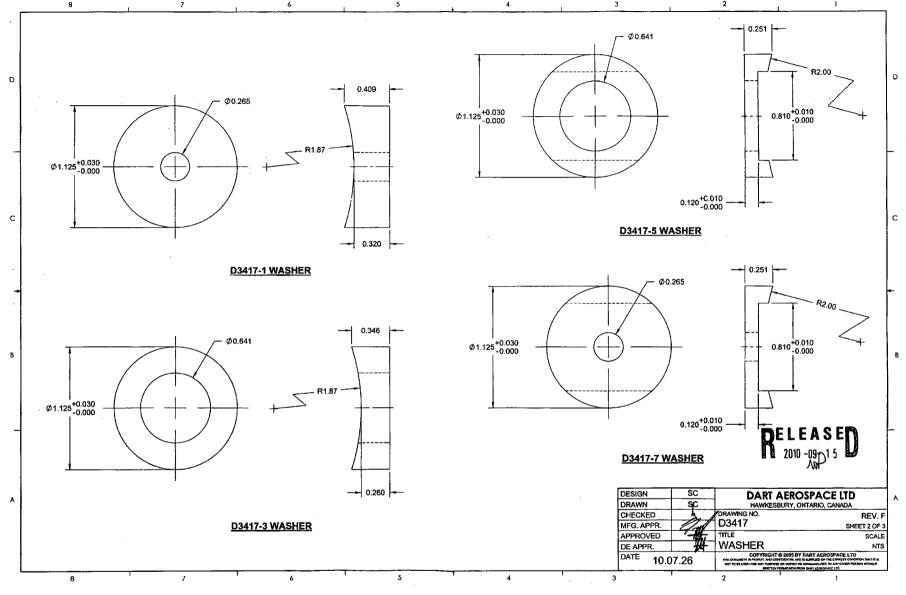
## FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø1.125	+0.030/-0.000	1,142	V		VERY	P20-12
Ø0.641	+0.008/-0.001	.641	V		1.	H
0.120	+0.010/-0.000	.125			,L	, .
0.810	+0.010/-0.000	. 814	V		11	1)
0.251	+/-0.010	.251	/		1,	ø
R2.00	+/-0.030	2.00			Rad 6	
					·	
,						
	·					
-						

	2A0.				
Measured by:	40	Audited by:	F.K.	Preliminary Approval:	
Date: 13/	12/20	Date:	13/12/22	Date:	

Rev	Date	Change	Revised by	Approved
A	09.05.04	New Issue	KJ/DD	1
В	10.11.12	Dwg Rev updated	KJ 10	7/
С	12.07.31	Dwg Rev updated	KJ 9\	JAJ_





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